



Predictive Uncertainty

WD 34 – nr Blackfoot-Minidoka

WD130 – nr Blackfoot-Minidoka

WD130 – Ashton-Rexburg

Allan Wylie IDWR



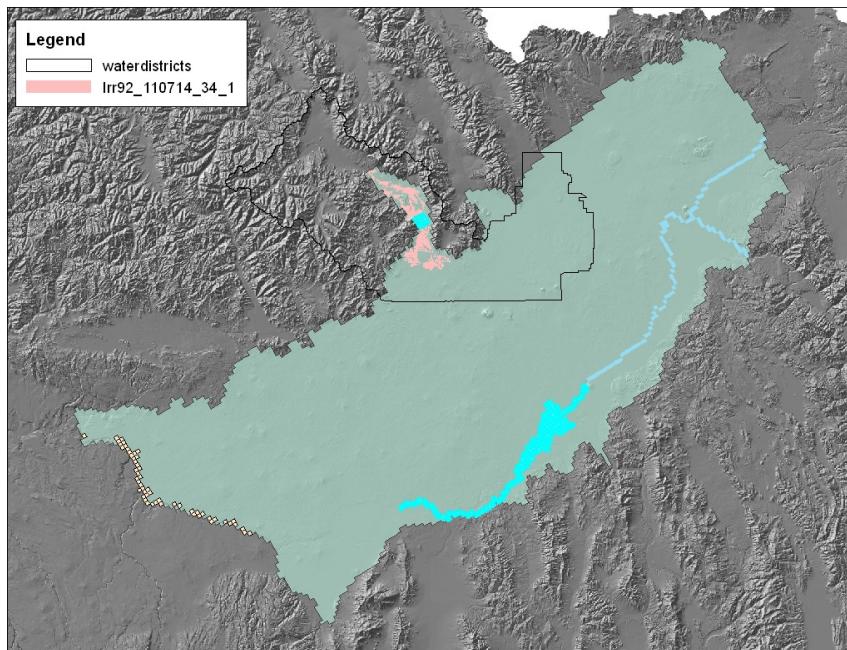
Completed Analyses

Centroid	Reach	Calibrated Impact	Maximized Impact	Minimized Impact
WD110	Clear Lakes	0.17%	0.17%	0.16%
WD120	Clear Lakes	0.45%	0.93%	0.39%
WD120	nr Blackfoot-Minidoka	66.52%		
WD130	Clear Lakes	7.11%	7.36%	6.93%
WD130	nr Blackfoot-Minidoka	21.56%	21.67%	14.93%
WD130	Ashton-Rexburg	0.94%	0.96%	0.94%
WD34	Clear Lakes	2.73%	3.39%	0.44%
WD34	nr Blackfoot-Minidoka	48.58%	73.27%	38.60%

Highlighted rows are new

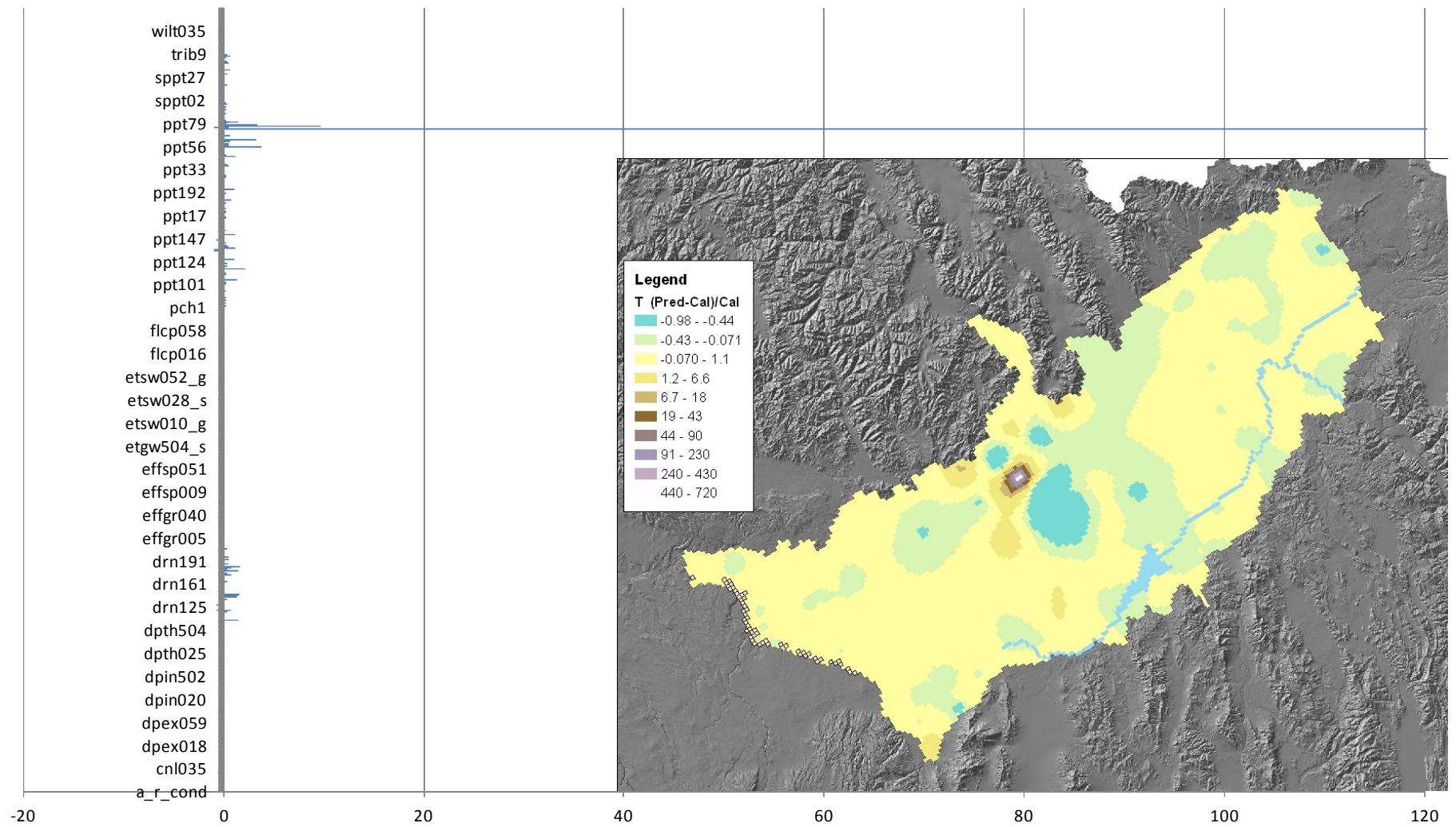
Predictive Uncertainty

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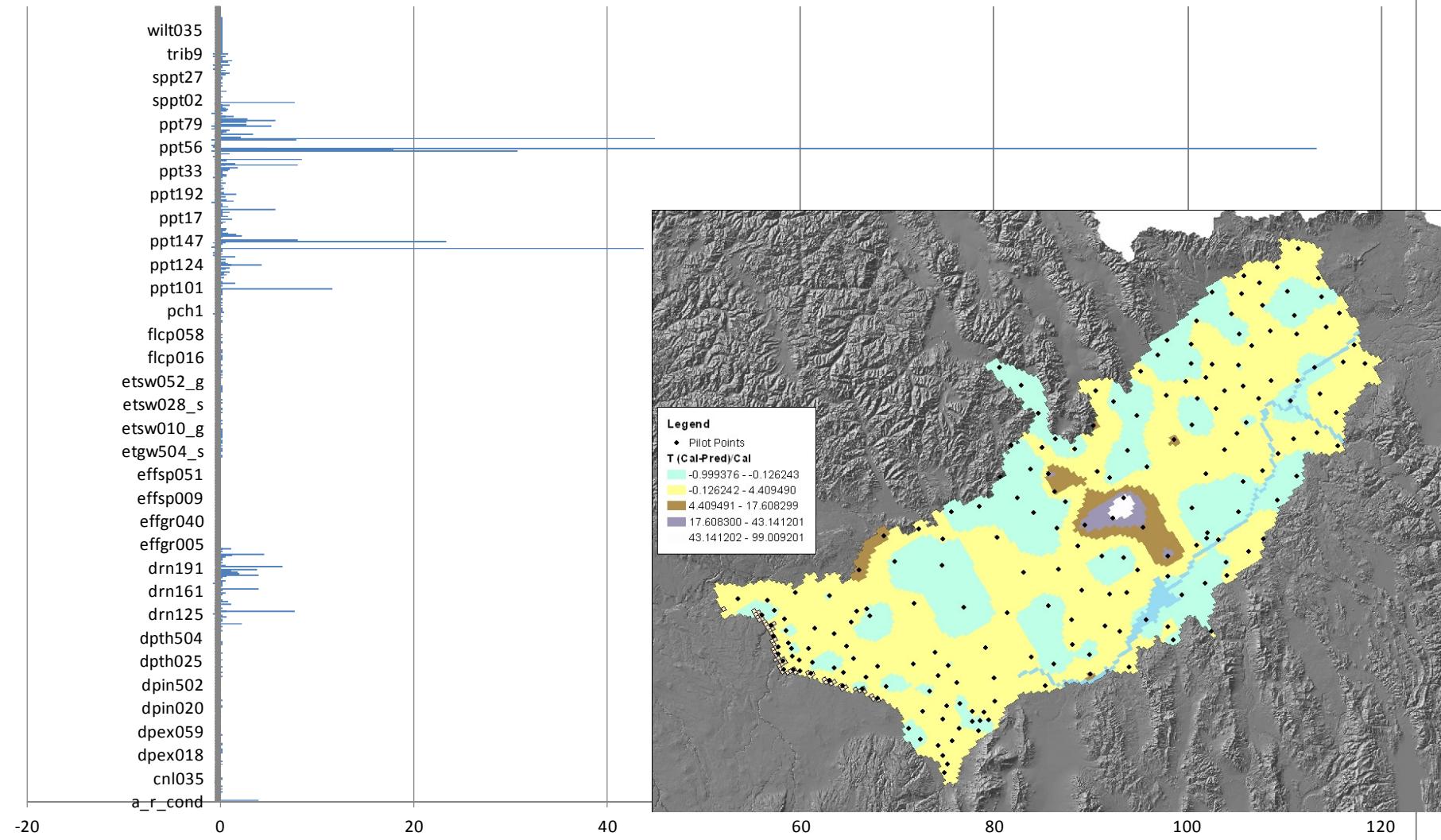


- WD34 on nr Blackfoot-Minidoka
- Impact of centroid for irrigated lands within WD34 on nr Blackfoot-Minidoka
- How tightly assumptions and calibration data constrain prediction
- Maximize = maximize the impact on nr Blackfoot-Minidoka
- Minimize = minimize the impact on nr Blackfoot-Minidoka

(Min-Cal)/Cal

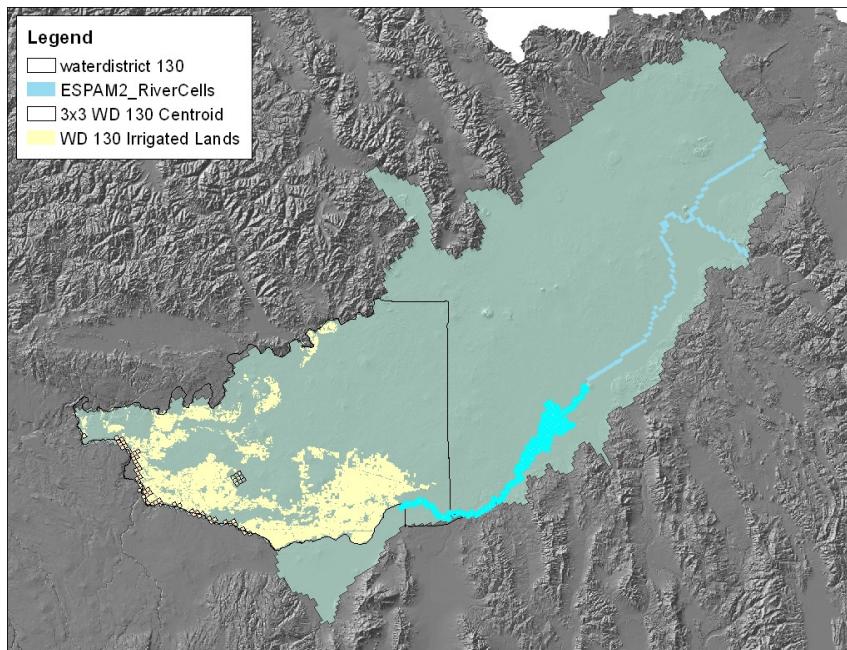


(Max-Cal)/Cal



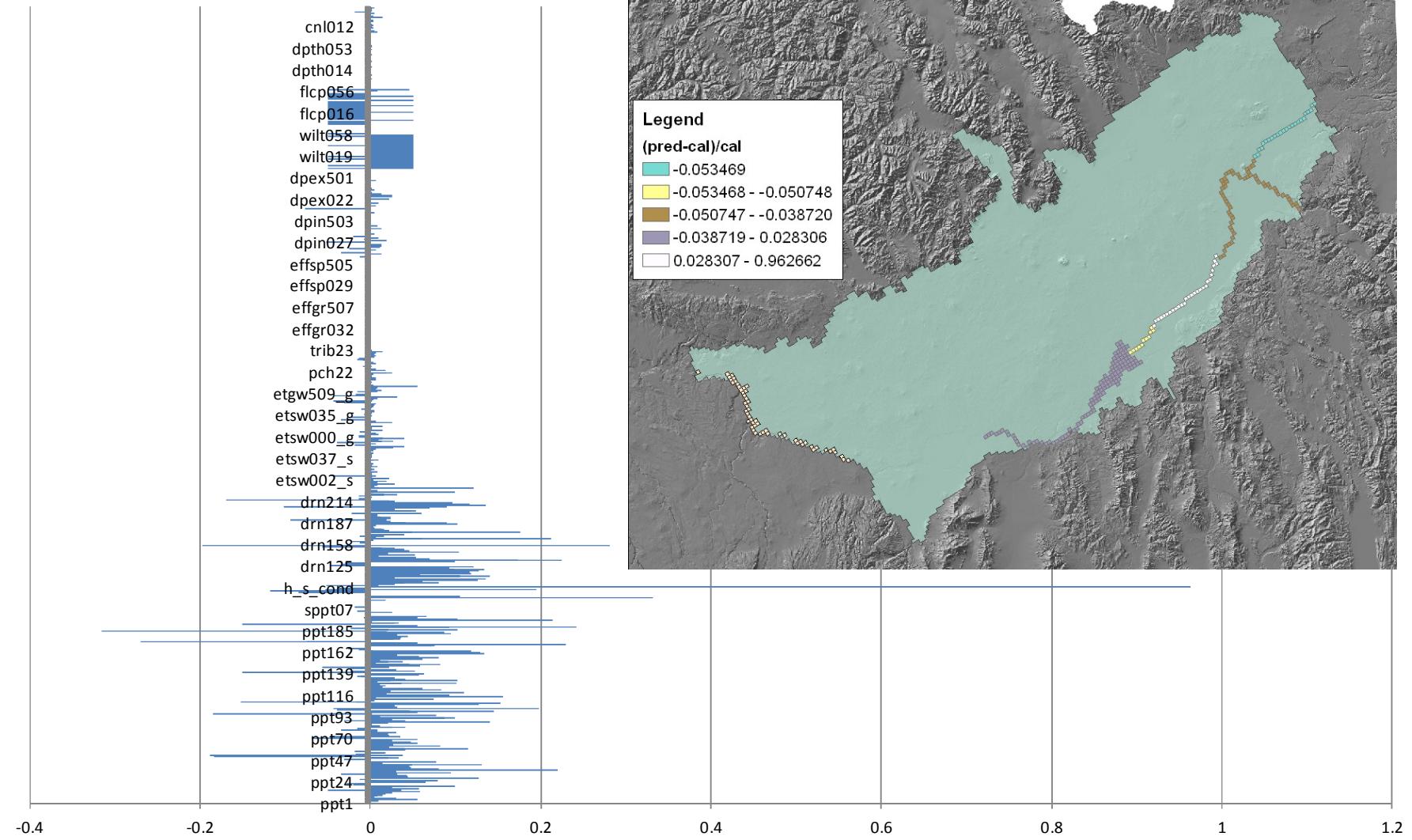
Predictive Uncertainty

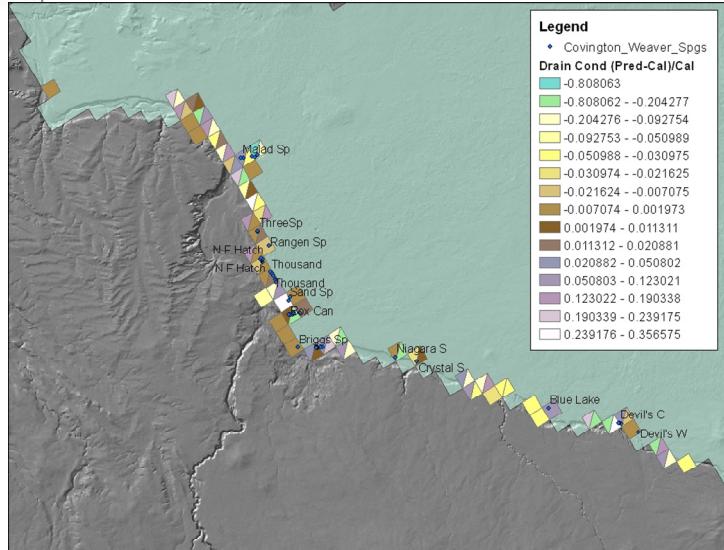
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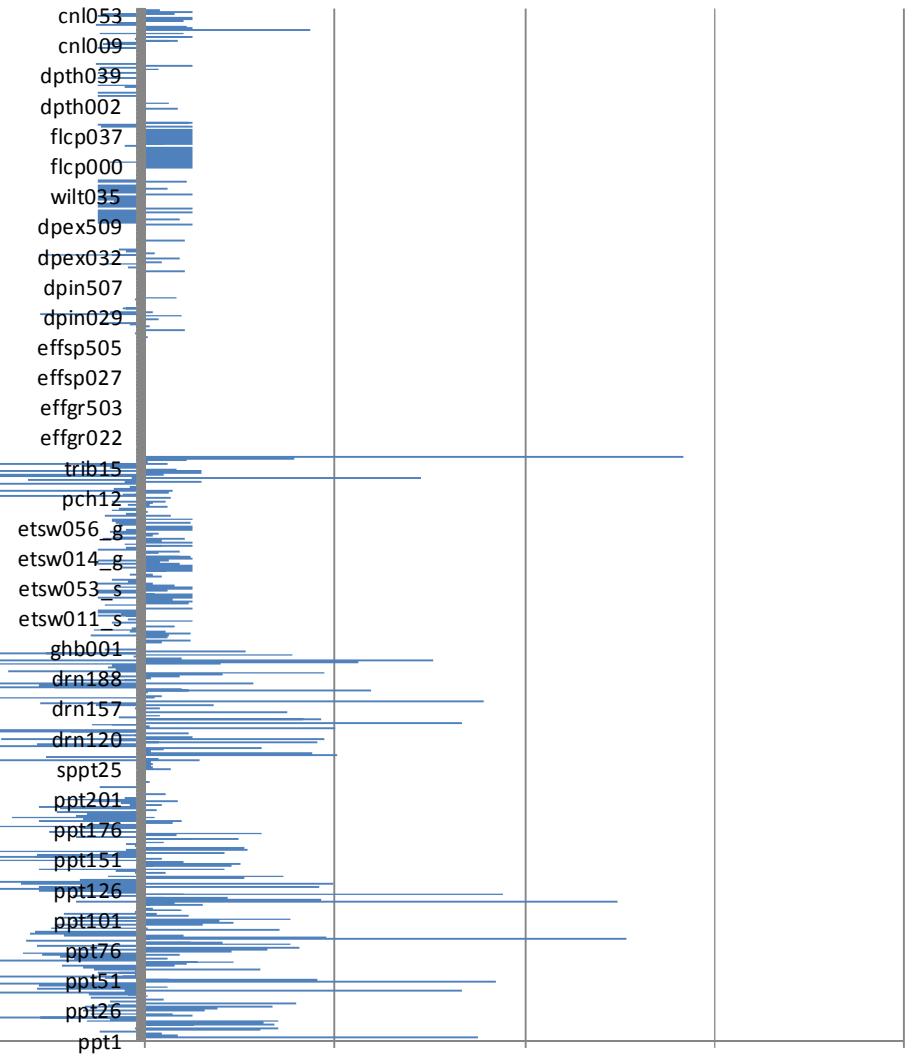
- WD130 on nr Blackfoot-Minidoka
- Impact of centroid for irrigated lands within WD130 on nr Blackfoot-Minidoka
- How tightly assumptions and calibration data constrain prediction
- Maximize = maximize the impact on nr Blackfoot-Minidoka
- Minimize = minimize the impact on nr Blackfoot-Minidoka

(Min-Cal)/Cal



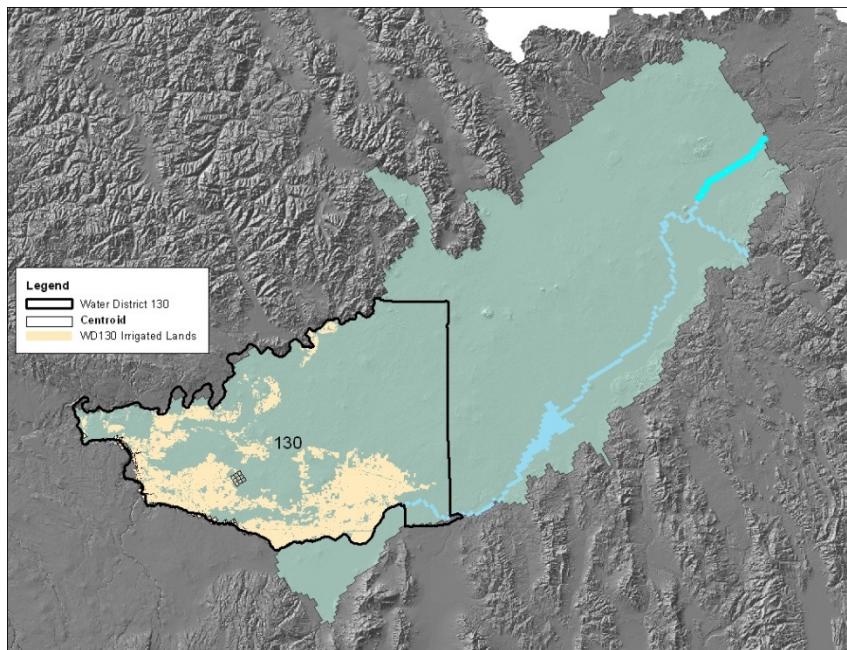


(Max-Cal)/Cal

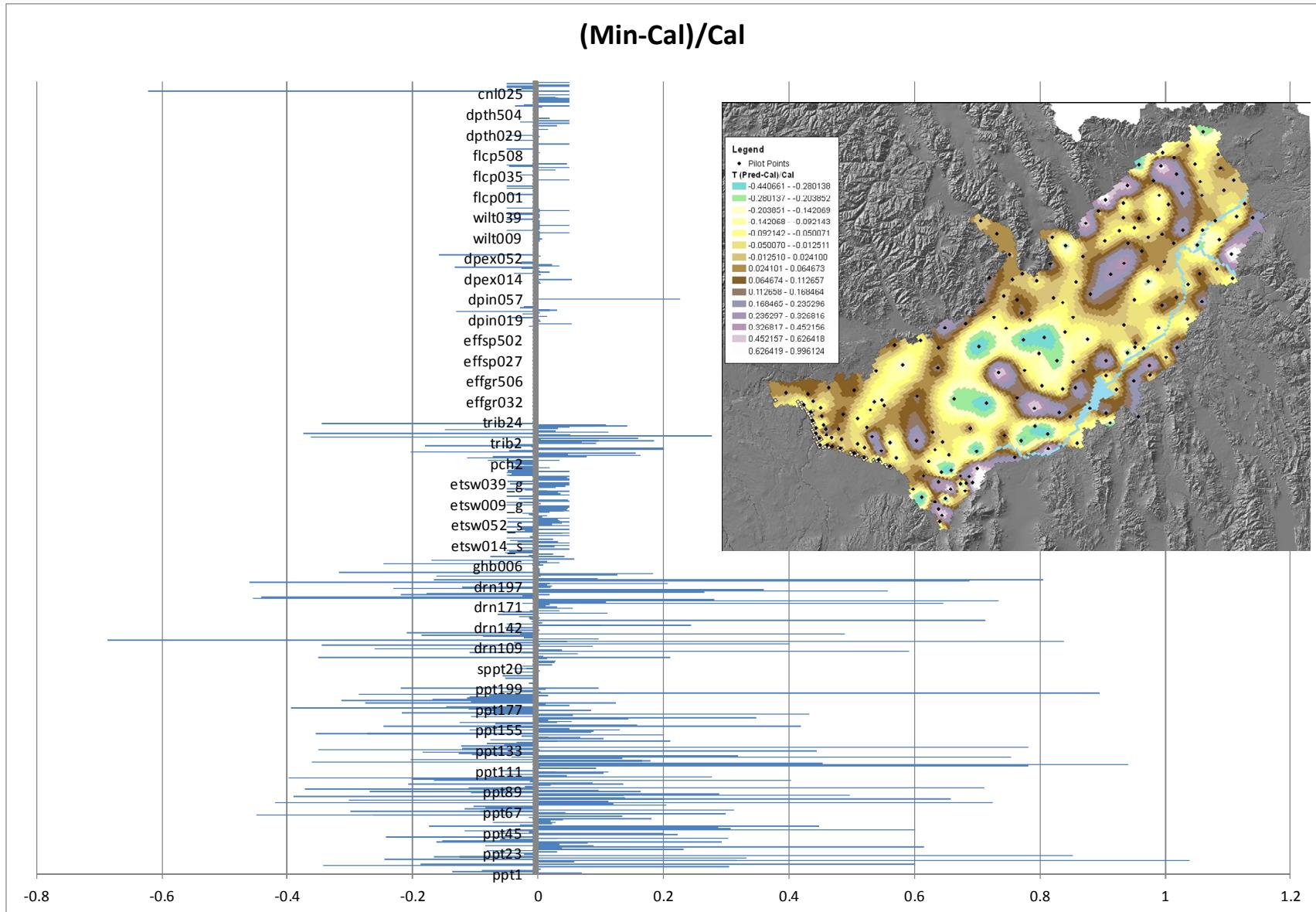


Predictive Uncertainty

E120116A008



- WD130 on Ashton-Rexburg
- Impact of centroid for irrigated lands within WD130 on Ashton-Rexburg
- How tightly assumptions and calibration data constrain prediction
- Maximize = maximize the impact on Ashton-Rexburg
- Minimize = minimize the impact on Ashton-Rexburg



PEST “objective function is above PD1”

Translation: PEST was not able to maximize the WD130 impact on the Henry's Fork without adversely impacting the objective function.



Department of
Water Resources

Water Dist	Clear Lk	SWCo	Hnry Fork	Blue Lk
wd100				
wd110	o			
wd120	o	\		
wd130	o	x	x	
wd140				
wd34	o	o		
wd33				
wd99				
o	conducted with E110712A001			
x	conducted with E120116A008			

←ESPAM2



END

